

INDEX TO VOL. LXXIX. (B)

- Address of the President, Lord Rayleigh, November 30, 1906, 83.
Adelea ovata, life-history of (Dobell), 155.
 Air, solubility in fats, and relation to caisson disease (Vernon), 366.
 Albinoes and pigmented animals, intravascular coagulation in (Mudge), 103.
 Algal Flora, subaërial and fresh-water, of Ceylon (Fritsch), 197.
 Amygdalase, a new enzyme in yeast (Caldwell and Courtauld), 350.
Antirrhinum majus, inheritance of flower colour in (Wheldale), 288.
 Antisera, precipitin, inactivation and inhibition exhibited by (Welsh and Chapman), 465.
 Armstrong (H. E. and E. F.) Studies on Enzyme Action. X.—The Nature of Enzymes 360.
 Auld (S. J. M.) See Dunstan.
- Bacillus dysenteriae*, acquisition of new fermenting powers by (Twort), 329.
 Bacteria derived from sewage, presence of, in air of sewers (Horrocks), 255 ; — of typhoid-coli group, fermentation of glucosides by (Twort), 329.
 Bainbridge (F. A.) and Beddard (A. P.) The Relation of the Kidneys to Metabolism.—Preliminary Communication, 75.
 Barometric pressure, influence of increased, on man (Hill and Greenwood), 21, 284.
 Barratt (J. O. W.) On Opsonins in Relation to Red Blood Cells, 1 ; — On Mitosis in Proliferating Epithelium, 372 ; — Implantation of Actively Proliferating Epithelium, 546.
 Bashford (E. F.), Murray (J. A.), and Cramer (W.) The Natural and Induced Resistance of Mice to the Growth of Cancer, 164.
 Beale (L. S.) Obituary notice of, lvii.
 Beddard (A. P.) See Bainbridge and Beddard.
 Benson (M.) *Miadessmia membranacea*, Bertrand ; a new Palæozoic Lycopod with a Seed-like Structure, 473.
 Bile secretion and absorption in obstruction of bile duct (Herring and Simpson), 517.
 Blanford (W. T.) Obituary notice of, xxvii.
 Blood, estimation of chloroform in (Buckmaster and Gardner), 309 ; — fatty degeneration of (Shattock and Dudgeon), 427 ; — in chloroform anæsthesia, studies of (Buckmaster and Gardner), 555, 566, 579.
 Blood-cells, red, and opsonins (Barratt), 1.
 Blood-serum, increase in complement-content of (Henderson-Smith), 378.
 Bolton (C.) On the Pathology of the Dropsy produced by Obstruction of the Superior and Inferior Venæ Cavæ and the Portal Vein.—Preliminary Communication, 267 ; — Further Studies of Gastrototoxic Serum (Progress Report), 533.
 Bone, regeneration of, rôle of various elements in (Macewen), 397.
 Buchanan (F.) The Time taken in passing the Synapse in the Spinal Cord of the Frog, 503.

- Buckmaster (G. A.) and Gardner (J. A.) The Estimation of Chloroform in the Blood of Anæsthetised Animals, 309 ; — The Rate of the Assumption of Chloroform by the Blood during Anæsthesia, 555 ; — Function of the Red Corpuscles in Chloroform Anæsthesia, 566 ; — On the Rate of Elimination of Chloroform from the Blood after Anæsthesia, 579.
- Buckton (G. B.) Obituary notice of, xlv.
- Burdon-Sanderson (Sir J. S.) Obituary notice of, iii.
- Caisson disease, relation to solubility of air in fats (Vernon), 366.
- Caldwell (R. J.) and Courtauld (S. L.) Studies on Enzyme Action. IX.—The Enzymes of Yeast : Amygdalase, 350.
- Cancer, natural and induced resistance of mice to growth of (Bashford and others), 164.
- Carmichael (E. S.) and Marshall (F. H. A.) The Correlation of the Ovarian and Uterine Functions, 387.
- Cathcart (E. P.) and Leathes (J. B.) On the Relation between the Output of Uric Acid and the Rate of Heat Production in the Body, 541.
- Ceylon, algal flora of (Fritsch), 197.
- Chapman (H. G.) See Welsh and Chapman.
- Chitin, identification of, by physical constants (Sollas), 474.
- Chloroform in blood, estimation of (Buckmaster and Gardner), 309 ; — rate of assumption by blood during anæsthesia (Buckmaster and Gardner), 555 ; — anæsthesia, function of red corpuscles in (Buckmaster and Gardner), 566 ; — rate of elimination from blood (Buckmaster and Gardner), 579.
- Clarke (C. B.) Obituary notice of, xlix.
- Coagulation, intravascular, in albinos, and relation to nucleo-proteids of testes (Mudge), 103.
- Courtauld (S. L.) See Caldwell and Courtauld.
- Cramer (W.) See Bashford (E. F.).
- Croonian Lecture. See Hardy ; Farmer.
- Cyanogenesis in plants, VI (Dunstan, Henry, Auld), 315.
- Dean (G.) An Experimental Enquiry into the Nature of the Substance in Serum which influences Phagocytosis (Second Communication), 399.
- Dixon (H. H.) On the Transpiration Current in Plants, 41.
- Dobell (C. C.) Observations on the Life-history of *Adelea ovata*, Aimé Schneider, with a Note on a New Gregarine from the Gut of *Lithobius forficatus*, 155.
- Dropsy produced by obstruction of venæ cavæ and portal vein, pathology of (Bolton), 267.
- Dudgeon (L. S.) See Shattock and Dudgeon.
- Dunstan (W. R.), Henry (T. A.), and Auld (S. J. M.) Cyanogenesis in Plants. Part VI.—On Phaseolunatin and the Associated Enzymes in Flax, Cassava, and the "Lima Bean," 315.
- Enzyme action, studies on (Caldwell and Courtauld), 350 ; — (Armstrong), 360.
- Epithelium, implantation of proliferating (Barratt), 546 ; — mitosis in proliferating (Barratt), 372.
- Ewart (A. J.) The Ascent of Water in Trees (Second Paper), 395.
- Farmer (J. B.) Croonian Lecture.—On the Structural Constituents of the Nucleus, and their Relation to the Organisation of the Individual, 446.
- Fermentation of glucosides by bacteria of typhoid-coli group (Twort), 329.
- Fritsch (F. E.) A General Consideration of the Subærial and Fresh-water Algal Flora of Ceylon. Part I.—Subærial Algæ and Algæ of the Inland Fresh-waters, 197.

- Gardner (J. A.) See Buckmaster and Gardner.
 Globulin, chemistry of (Sutherland), 130.
 Globulins, Croonian Lecture on (Hardy), 413.
 Gotch (F.) Capillary Electrometer Records of the Electrical Changes during the Natural Beat of the Frog's Heart (Preliminary Communication), 323.
 Greenwood (M., jun.) See Hill and Greenwood.
 Gregarine, note on a new, from *Lithobius forficatus*, 155.
 Groom (P.) Longitudinal Symmetry in Phanerogamia, 305.
- Hardy (W. B.) Croonian Lecture.—On Globulins, 413.
 Heart, electrometer records of electrical changes during natural beat of (Gotch), 323.
 Heat production in body, relation to uric acid output (Cathcart and Leathes), 541.
 Henderson-Smith (J.) Increase in the Complement-content of Fresh Blood-serum, 378.
 Henry (T. A.) See Dunstan.
 Herring (P. T.) and Simpson (S.) The Pressure of Bile Secretion and the Mechanism of Bile Absorption in Obstruction of the Bile Duct, 517.
 Hill (L.) and Greenwood (M.) The Influence of Increased Barometric Pressure on Man, 21, 284.
 Horrocks (W. H.) Experiments made to determine the Conditions under which "Specific" Bacteria derived from Sewage may be present in the Air of Ventilating Pipes, Drains, Inspection Chambers, and Sewers, 255.
 Howes (T. G. B.) Obituary notice of, xxxi.
 Hutton (F. W.) Obituary notice of, xli.
- Ince (W. H.) See Mann and Ince.
 Inheritance of flower colour in Antirrhinum (Wheldale), 288 ; — of invisible characters in peas (Lock), 28.
 Innervation, reciprocal, of antagonistic muscles (Sherrington), 337.
- Kidneys, relation to metabolism (Bainbridge and Beddard), 75.
- Leathes (J. B.) See Cathcart and Leathes.
 Ledingham (J. C. G.) The Inhibitory Action upon Subsequent Phagocytosis, exerted on Active Normal Serum by Inactive Normal Serum through which Bacilli have been passed, 482.
 Leucocytes, life-history of (Walker), 491, 495.
 Lock (R. H.) On the Inheritance of certain Invisible Characters in Peas, 28.
- MacBride (E. W.) Some Points in the Development of *Ophiotrix fragilis*, 440.
 Macdonald (J. S.) The Structure of Nerve-fibres, 12.
 Macewen (Sir W.) The Role of the Various Elements in the Development and Regeneration of Bone, 397.
 Mann (E. A.) and Ince (W. H.) Contributions to our Knowledge of the Poison Plants of Western Australia, 485.
 Marshall (F. H. A.) See Carmichael and Marshall.
 Martin (W. B. M.) See Muir and Martin.
 Medlicott (H. B.) Obituary notice of, xix.
Mademia membranacea, a palæozoic Lycopod (Benson), 473.
 Minchin (E. A.) On the Occurrence of Encystation in *Trypanosoma grazi*, Novy, with Remarks on the Method of Infection in Trypanosomes generally, 35.
 Mitosis in proliferating epithelium (Barratt), 372.

- Mudge (G. P.) On Intravascular Coagulation in Albinoes and Pigmented Animals, and on the Behaviour of the Nucleo-proteids of Testes in Solution in the Production of Intravascular Coagulation, 103.
- Muir (R.) and Martin (W. B. M.) On the Combining Properties of the Opsonin of an Immune Serum, 187.
- Murray (J. A.) See Bashford (E. F.).
- Muscles, antagonistic, reciprocal innervation of (Sherrington), 337.
- Nerve fibres, structure of (Macdonald), 12.
- Nucleus, structural constituents of, relation to organisation of individual (Farmer), 446.
- Obituary notices of Fellows deceased, i.
- Ophiothrix fragilis*, some points in development of (MacBride), 440.
- Opsonin of immune serum, combining properties of (Muir and Martin), 187.
- Opsonins in relation to red blood cells (Barratt), 1.
- Ovarian and uterine functions, correlation of (Carmichael and Marshall), 387.
- Oxygen, possibility of, being set free in body (Hill and Greenwood), 284.
- Peas, inheritance of invisible characters in (Lock), 28.
- Phagocytosis, nature of substance in serum which influences (Dean), 399 ; — inhibitory action upon, exerted on active normal serum by inactive normal serum through which bacilli have been passed (Ledingham), 482.
- Phaseolunatin and associated enzymes in flax, etc. (Dunstan, Henry, Auld), 315.
- Plimmer (H. G.) Further Observations on the Effects produced on Rats by the Trypanosomata of Gambia Fever and of Sleeping Sickness, 95 ; — and Thomson (J. D.) A Preliminary Summary of the Results of the Experimental Treatment of Trypanosomiasis in Rats, 505.
- Poison plants of Western Australia (Mann and Ince), 485.
- Precipitin antisera, inactivation and inhibition exhibited by (Welsh and Chapman), 465.
- Rayleigh (Lord) Presidential Address, November 30, 1906, 83.
- Reid (G.) Nitrification of Sewage, 58.
- Richthofen (Ferdinand, Baron von) Obituary notice of, xxxv.
- Sanderson (Sir J. Burdon) See Burdon-Sanderson.
- Serum, gastrototoxic, further studies of (Bolton), 533 ; — immune, combining properties of opsonin of (Muir and Martin), 187 ; — nature of substance in, which influences phagocytosis (Dean), 399.
- Sewage, nitrification of (Reid), 58.
- Sewers, conditions in which "specific" bacteria may be present in the air of (Horrocks), 255.
- Shattock (S. G.) and Dudgeon (L. S.) Fatty Degeneration of the Blood, 427.
- Sherrington (C. S.) On Reciprocal Innervation of Antagonistic Muscles.—Tenth Note, 337.
- Simpson (S.) See Herring and Simpson.
- Sollas (I. B. J.) On the Identification of Chitin by its Physical Constants, 474.
- Spinal cord of frog, time taken in passing synapse in (Buchanan), 503.
- Sutherland (W.) The Chemistry of Globulin, 130.
- Symmetry in phanerogamia, graphic method of recording (Groom), 305.
- Testes, nucleo-proteids of, and production of intravascular coagulation (Mudge), 103.
- Thomson (J. D.) See Plimmer and Thomson.
- Transpiration current in plants (Dixon), 41.

lxix

- Trees, ascent of water in (Ewart), 395.
Trypanosoma grayi, encystation in (Minchin), 35.
Trypanosomata, effects produced on rats by (Plimmer), 95.
Trypanosomes, method of infection in (Minchin), 35.
Trypanosomiasis in rats, summary of results of experimental treatment of (Plimmer and Thomson), 505.
Twort (F. W.) The Fermentation of Glucosides by Bacteria of the Typhoid-coli Group and the Acquisition of New Fermenting Powers by *Bacillus dysenteriae* and other Micro-organisms. Preliminary Communication, 329.
Uric acid and heat production (Cathcart and Leathes), 541.
Uterine functions, correlation of ovarian and (Carmichael and Marshall), 387.
Vernon (H. M.) The Solubility of Air in Fats, and its Relation to Caisson Disease, 366.
Walker (C. E.) Observations on the Life-history of Leucocytes. Part II.—On the Origin of the Granules, 491 ; — Part III, 495.
Welsh (D. A.) and Chapman (H. G.) On certain Phenomena of Inactivation and of Inhibition exhibited by Precipitin Antisera, 465.
Western Australia, poison plants of (Mann and Ince), 485.
Wheldale (M.) The Inheritance of Flower Colour in *Antirrhinum majus*, 288.
Yeast, new enzyme in (Caldwell and Courtauld), 350.

END OF THE SEVENTY-NINTH VOLUME (SERIES B).